

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A refrigeration system of an air conditioning apparatus to cool or heat air within a space by using phase change of refrigerant, the refrigeration system comprising:

an expansion unit to execute adiabatic expansion of refrigerant;

an indoor unit with a heat exchanger;

a compressor to execute adiabatic compression of the refrigerant;

an outdoor unit with a heat exchanger; and

a bypass line connected between an inlet and an outlet of the compressor to bypass at least a part of the refrigerant discharged from the outlet of the compressor to the inlet of the compressor, when a pressure of the discharged refrigerant is lower than a preset level or the temperature of outside air of the compressor is lower than a preset level[.],

wherein refrigerant condensed in the indoor unit or the outdoor unit is introduced into the expansion unit through a plurality of auxiliary evaporators which are connected to each other in series or in parallel with respect to the flow of the refrigerant for heat exchange.

2. (Currently Amended) The refrigeration system of an air conditioning apparatus as set forth in claim 1, ~~wherein refrigerant is condensed in the indoor unit or the outdoor unit is introduced into the expansion unit through at least one auxiliary evaporator for heat exchange, and~~ a part of the refrigerant to be introduced into the

expansion unit is expanded in at least one auxiliary expansion unit under the adiabatic condition, and supplied to the compressor through the plurality of auxiliary evaporators for heat exchange.

3. (Cancelled)

4. (Original) The refrigeration system of an air conditioning apparatus as set forth in claim 2, wherein the at least one auxiliary expansion unit is comprised of a plurality of auxiliary expansion units which are connected to each other in series or in parallel with respect to the flow of the refrigerant.

5. (Currently Amended) The refrigeration system of an air conditioning apparatus as set forth in claim 1, wherein ~~refrigerant condensed in the indoor unit or the outdoor unit is introduced into the expansion unit through at least one auxiliary evaporator for heat exchange, in which~~ a part of the refrigerant to be introduced into the expansion unit is expanded in at least one auxiliary expansion unit under the adiabatic condition, and the refrigerant discharged from the at least one auxiliary expansion unit is mixed with the refrigerant evaporated in the outdoor or the indoor, and supplied to the compressor through the ~~at least one~~ plurality of auxiliary evaporators.

6. (Cancelled)

7. (Original) The refrigeration system of an air conditioning apparatus as set forth in claim 5, wherein the at least one auxiliary expansion unit is comprised of a plurality of auxiliary expansion units which are connected to each other in series or in parallel with respect to the flow of the refrigerant.

8. (Currently Amended) The refrigeration system of an air conditioning apparatus as set forth in claim 1, wherein ~~refrigerant condensed in the indoor unit or the outdoor unit is introduced into the expansion unit through at least one auxiliary evaporator for heat exchange, in which~~ a part of the refrigerant to be introduced into the expansion unit is expanded in at least one auxiliary expansion unit under the adiabatic condition, and the refrigerant discharged from the at least one auxiliary expansion unit and subjected to heat exchange in the ~~at least one~~ plurality of auxiliary evaporators is mixed with the refrigerant evaporated in the outdoor or the indoor and subjected to heat exchange in the expansion unit, and supplied to the compressor.

9. (Cancelled)

10. (Original) The refrigeration system of an air conditioning apparatus as set forth in claim 8, wherein the at least one auxiliary expansion unit is comprised of a plurality of auxiliary expansion units which are connected to each other in series or in parallel with respect to the flow of the refrigerant.